Special Issue

Symmetry and Fractals: Theory and Applications

Message from the Guest Editors

Symmetry and fractals are two concepts that are abundant in mathematics, physics, and nature. They provide new mathematical tools for studying complex systems and are important for understanding and describing physical phenomena. These tools can extract useful information hidden in complex data, providing strong support for scientific research and engineering applications. They both hold important positions and values in the field of science. This Special Issue aims to explore the basic principles and applications of symmetry and fractal theory in fields such as mathematics, physics, chemistry, biology, sociology, and engineering; promote the research and development of symmetry and fractal theory; discover new theories and methods; develop new numerical and experimental methods to validate and expand symmetry and fractal theory; and apply the theories of symmetry and fractals to solve practical problems and promote scientific and technological progress. In this Special Issue, original research articles and reviews are welcome. Keywords:
symmetry;
fractals;
theoretical research;
interdisciplinary applications;
numerical methods;
mathematical models.

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About the Journal

Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in
natural sciences. It is not surprising then that very basic
and fundamental research achievements are related to
symmetry. For instance, the Nobel Prize in Physics 1979
(Glashow, Salam, Weinberg) was received for a unified
symmetry description of electromagnetic and weak
interactions, while the Nobel Prize in Physics 2008
(Nambu, Kobayashi, Maskawa) was received for the
discovery of the mechanism of spontaneous breaking of
symmetry, including CP symmetry. Our journal is named
Symmetry and it manifests its fundamental role in
nature.

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